



Substitute for form 1449A/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	10/719,357
		Filing Date	November 21, 2003
		First Named Inventor	Crafts, Harold S.
		Art Unit	2825
		Examiner Name	Not yet known
Sheet 1	of 1	Attorney Docket Number	000939-052180US

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code <sup>2</sup> (if known)			
hso	A1	US-5,391,904	02-21-1995	Asami et al.	
	A2				
	A3				

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	B1							<input type="checkbox"/>
	B2							<input type="checkbox"/>

Examiner Signature		Date Considered	11/02/06
-----------------------	--	--------------------	----------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Kind Codes of U.S. Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP §01.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

60343155 v1

11/21/03

PTO/SB/08A (08-03)

Substitute for form 1449A/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

of

Complete If Known

Application Number

Not Yet Assigned

Filing Date

First Named Inventor

Crafts, Harold S.

Art Unit

Examiner Name

Attorney Docket Number

000939-052180US

## U.S. PATENT DOCUMENTS\*

Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
29	A1	US-3,461,361		08/01/1969	Dellvorlas	
	A2	US-4,143,178		03/06/1979	Harada et al.	
	A3	US-4,151,635		05/01/1979	Kashkooli et al.	
	A4	US-4,229,756		10/21/1980	Sata et al.	
	A5	US-4,244,001		01/06/1981	Alfred C. Ipri	
	A6	US-4,317,690		03/02/1982	Koomen et al.	
	A7	US-4,525,809		06/25/1985	Chiba et al.	
	A8	US-4,584,653		04/22/1986	Chih et al.	
	A9	US-4,593,205		06/03/1986	Bass et al.	
	A10	US-4,630,219		12/16/1986	DiGiacomo et al.	
	A11	US-4,638,458		01/20/1987	Yasuo Itoh	
	A12	US-4,682,202		07/21/1987	Tetsu Tanizawa	
	A13	US-4,686,758		08/18/1987	Liu et al.	
	A14	US-4,701,642		10/20/1987	Wilbur D. Pricer	
	A15	US-4,742,383		05/03/1988	Joseph M. Fitzgerald	
	A16	US-4,845,544		07/04/1989	Shinji Shimizu	
	A17	US-4,849,344		07/18/1989	Desbiens et al.	
	A18	US-4,905,073		02/27/1990	Chen et al.	
	A19	US-4,989,062		01/29/1991	Takahashi et al.	
	A20	US-4,999,518		03/12/1991	Dhong et al.	
	A21	US-5,003,199		03/26/1991	Chuang et al.	
	A22	US-5,008,208		04/16/1991	Liu et al.	
	A23	US-5,013,679		05/07/1991	Kumagai et al.	
	A24	US-5,032,530		07/16/1991	Lowrey et al.	
	A25	US-5,037,766		08/06/1991	Ting S. Wang	
	A26	US-5,045,726		09/03/1991	Raymond T. Leung	
	A27	US-5,049,515		09/17/1991	Jhy-chemg J. Tzeng	
	A28	US-5,081,518		01/14/1992	El-Diwany et al.	
	A29	US-5,124,776		06/23/1992	Tanizawa et al.	
	A30	US-5,126,279		06/30/1992	Gregory N. Roberts	
	A31	US-5,162,884		11/10/1992	Liou et al.	
	A32	US-5,168,072		12/01/1992	Mehrdad M. Moslehi	
	A33	US-5,175,118		12/29/1992	Masahiro Yoneda	
	A34	US-5,225,991		07/06/1993	Dougherty	
	A35	US-5,286,518		02/15/1994	Cain et al.	
	A36	US-5,294,822		03/15/1994	Douglas P. Verrett	
	A37	US-5,296,755		03/22/1994	Miyamoto et al.	
	A38	US-5,298,805		03/29/1994	Garverick et al.	
	A39	US-5,313,079		05/17/1994	Brasen et al.	
	A40	US-5,313,101		05/17/1994	Harada et al.	
	A41	US-5,314,832		05/24/1994	Simon Deleonibus	

Examiner  
Signature

Date  
Considered

11/22/06

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Kind Codes of U.S. Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.  
60051493 v1

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

of

**Complete if Known**

Application Number Not Yet Assigned

Filing Date

First Named Inventor Crafts, Harold S.

Art Unit

Examiner Name

Attorney Docket Number 000939-052180US

**U.S. PATENT DOCUMENTS\***

Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
B28	A42	US-5,341,049		08/23/1994	Shimizu et al.	
	A43	US-5,342,794		08/30/1994	Wei, Yi-Hen	
	A44	US-5,388,055		02/07/1995	Tanizawa et al.	
	A45	US-5,410,173		04/25/1995	Kikushima et al.	
	A46	US-5,432,707		07/11/1995	Leung	
	A47	US-5,444,285		08/22/1995	Robinson et al.	
	A48	US-5,452,245		09/19/1995	Hickman et al.	
	A49	US-5,539,224		07/01/1998	Ema	
	A50	US-5,541,120		07/30/1996	Robinson et al.	
	A51	US-5,654,898		08/05/1997	Roetcisoender et al.	
	A52	US-5,671,397		09/23/1997	Crafts	
	A53	US-5,869,900		02/09/1999	Crafts	
	A54	US-6,269,466		07/31/2001	Crafts	
	A55	US-6,489,641		12/03/2002	Crafts	
	A56	US-6,605,499		08/12/2003	Crafts	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>3</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	C1							<input type="checkbox"/>
	C2							<input type="checkbox"/>
	C3							<input type="checkbox"/>

Examiner  
SignatureDate  
Considered

11/22/06

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Kind Codes of U.S. Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

60051493 v1

Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

of

**Complete if Known**

Application Number	Not Yet Assigned
Filing Date	
First Named Inventor	Crafts, Harold S.
Art Unit	
Examiner Name	
Attorney Docket Number	000939-052180US

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
<i>kt</i>	C1	BACHELU et al. "A Study of the Use of Local Interconnect in CMOS Leaf Cell Design," <i>IEEE</i> , 1993, pp. 566-570	
	C2	BACHELU et al. "A Study of the Use of Local Interconnect in CMOS Leaf Cell Design," <i>IEEE</i> , pp. 1258-1261, 1992	
	C3	BARTELINK et al. "Interconnect for Submicron ASICs," <i>IEEE</i> , 1989, pp. 59-62	
	C4	CHANG, M. & CHEN, C. "PROMPT3 - A cell-Based Transistor Sizing Program Using Heuristic and Simulated Annealing Algorithms," <i>IEEE</i> , 1989, pp. 17.2.1-17.2.4.	
	C5	FELDMAN, J. et al. "An Efficient Algorithm for some Multitrow Layout Problems", <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits &amp; Systems</i> , August 1993, pp. 1178-1185, Vol. 12, No. 8.	
	C6	HSIEH et al. "Size Optimization for CMOS Basic Cells of VLSI", <i>IEEE</i> , pp. 2180-2183	
	C7	KAWASAKI, H. et al. "10K-Gate GaAs JFET Sea of Gates", <i>IEEE Journal of Solid-State Circuits</i> , October 1991; pp. 1367-1370, Vol. 26, No. 10.	
	C8	KORTE, B. et al. "A Design-System for ASIC's with Macrocells", <i>IEEE, Euro ASIC '90</i> ; 1990; pp. 220-224.	
	C9	KORTE, B. et al. "Combining Partitioning and Global Routing in a Sea-of-Cells Design", <i>IEEE Computer-Aided Design, 1989 International Conference</i> ; pp. 98-101	
	C10	MADHIAN, M. et al. "Application of AlGaAs/GaAs HBT's to High-Speed CML Logic Family Fabrication", <i>IEEE Transactions on Electron Devices</i> , April 1989; pp. 625-631, Vol. 36, No. 4.	
	C11	PANNER, J. et al. "A Comprehensive CAD System for High-Performance 300K-Circuit ASIC Logic Chips", <i>IEEE Journal of Solid-State Circuits</i> , March 1991, pp. 300-309, Vol. 26, No. 3.	
	C12	PERELLO et al. "Dependence of Spice level 3 Model Parameters with Transistor Size", <i>IEEE</i> , pp. 84-89.	
	C13	SHICHIJO, H. et al. "GaAs MESFET and Si CMOS Cointegration and Circuit Techniques", <i>IEEE, GaAs IC Symposium</i> , September 1988; pp. 239-242.	
<i>DS</i>	C14	STOOPS, E.H., Structured Macro, <i>IBM Technical Disclosure Bulletin</i> , September 1982, Vol. 25, No. 4	

Examiner  
SignatureDate  
Considered*11/22/02*

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A (08-03)

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of   

Complete if Known	
Application Number	10/719,357
Filing Date	November 21, 2003
First Named Inventor	Crafts, Harold S.
Art Unit	2825
Examiner Name	Not yet known
Attorney Docket Number	000939-052180US

U.S. PATENT DOCUMENTS+						
Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
12.5 12.6	AA	US-3,808,475		04-30-1974	Buelow et al.	
	AB	US-4,482,810		11-13-1984	Cooke	
	AC	US-				
	AD	US-				
	AE	US-				
	AF	US-				
	AG	US-				
	AH	US-				
	AI	US-				
	AJ	US-				
	AK	US-				
	AL	US-				
	AM	US-				
	AN	US-				
	AO	US-				
	AP	US-				
	AQ	US-				
	AR	US-				
	AS	US-				
	AT	US-				

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (If known)				
	AU							<input type="checkbox"/>
	AV							<input type="checkbox"/>
	AW							<input type="checkbox"/>
	AX							<input type="checkbox"/>
	AY							<input type="checkbox"/>
	AZ							<input type="checkbox"/>
	BA							<input type="checkbox"/>
	BB							<input type="checkbox"/>

Examiner Signature		Date Considered	11/22/06
-----------------------	--	--------------------	----------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Kind Codes of U.S. Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

60206937 v1



Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

2

of

**Complete if Known**

Application Number	10/719,357
Filing Date	November 21, 2003
First Named Inventor	Crafts, Harold S.
Art Unit	2825
Examiner Name	Not yet known
Attorney Docket Number	000939-052180US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	BC		
	BD		
	BE		
	BF		
	BG		
	BH		
	BI		
	BJ		
	BK		
	BL		
	BM		

Examiner Signature		Date Considered	11/2/06
-----------------------	---	--------------------	---------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.